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Sir:
Transmitted herewith for filing is the Patent Application of:
Inventors: Toru Asano, Sang Hoo Dhong, Takaaki Nakazato, and Osamu Takahashi
For: Apparatus and Method of Worldling/Bitline Redundancy Control Using Shift Registers in an SPRAM
Assignee Name: International Business Machines Corporation
Assignee Residence: Armonk, New York
Assignee Name: Toshiba America Electronic Components, Inc
Assignee Residence: Irvine, California
Assignee Name: Kabushiki Kaisha Toshiba
Assignee Residence: Tokyo, Japan

Enclosed are:
☒ 10 Patent Specification including an Abstract
☒ 4 Pages of Claims
☒ 2 Sheet(s) of drawings. ☐ Informal ☒ Formal
☒ Declaration(s) and Power of Attorney
☒ Form PTO 1595 and Assignment of the Invention to IBM Corporation
☒ Form PTO 1595 and Assignment of the Invention to Toshiba America Electronic Components
☒ Form PTO 1595 and Assignment of the Invention to Kabushiki Kaisha Toshiba
☐ A certified copy of a ☐ application.
☐ Information Disclosure Statement, PTO 1449 and copies of ☐ references.

The filing fee has been calculated as shown below:

FOR	Number Filed	Number Extra	Rate	Basic Fee \$750.00
Total Claims	20	0	X \$ 18	= \$ 00.00
Independent Claims	3	0	X \$ 84	= \$ 00.00
Multiple Dependent Claims	00		X \$280	=
Total Filing Fee				= \$ 750.00

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☒ Any additional filing fees required under 37 CFR 1.16.

☒ Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

By 
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